

Prof. BİRNER AKKAYA

Personal Information

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Courses

Bitirme Tezi, Undergraduate, 2019 - 2020

Seminer Dersi, Postgraduate, 2019 - 2020

Enzimatik Analiz - II Lab., Undergraduate, 2018 - 2019

Protein Ligant Etkileşimleri : Uygulama ve Analitiksel Yöntemler, Postgraduate, 2019 - 2020

Uzmanlık Alan Dersi, Doctorate, 2019 - 2020

Öğretmenlik Uygulaması, Undergraduate, 2018 - 2019

Biyokimya I, Undergraduate, 2019 - 2020

Enzimatik Analiz - II, Undergraduate, 2018 - 2019

Protein Safılaştırma Teknikleri, Undergraduate, 2018 - 2019

Enzimatik Analiz - I Lab., Undergraduate, 2018 - 2019

Enzimatik Analiz - I, Undergraduate, 2018 - 2019

Afinite Teknikleri, Undergraduate, 2015 - 2016

Seminer Dersi, Doctorate, 2015 - 2016

Uzmanlık Alan Dersi, Postgraduate, 2014 - 2015

Biyotransformasyon II, Undergraduate, 2010 - 2011

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Chemical and biological characterization of sulfated chitosan oligomer as heparin mimics**
Kocabay S., Bahar M. R. , TEKİN S., AKKAYA R., AKKAYA B.
POLYMERS & POLYMER COMPOSITES, 2021 (Journal Indexed in SCI)
- II. **Preparation of sulfatide mimicking oleic acid sulfated chitosan as a potential inhibitor for metastasis**
Kocabay S., AKKAYA B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.147, pp.792-798, 2020 (Journal Indexed in SCI)
- III. **Mercury leads to abnormal red blood cell adhesion to laminin mediated by membrane sulfatides**
AKKAYA B., Kucukal E., Little J. A. , Gurkan U. A.
BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES, vol.1861, no.6, pp.1162-1171, 2019 (Journal Indexed in SCI)
- IV. **Production, purification, and characterization of metalloprotease from Candida kefyr 41 PSB**
Yavuz S., KOCABAY S., ÇETİNKAYA S., AKKAYA B., AKKAYA R., YENİDÜNYA A. F. , BAKICI M. Z.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.94, pp.106-113, 2017 (Journal Indexed in SCI)
- V. **Characterization of thermostable beta-amylase isozymes from Lactobacillus fermentum**
KOCABAY S., ÇETİNKAYA S., AKKAYA B., YENİDÜNYA A. F.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.93, pp.195-202, 2016 (Journal Indexed in SCI)
- VI. **Selective and single step adsorption of α -lactalbumin from whole cow's milk on hydroxyapatite microbeads**

ÇETİNKAYA S., AKKAYA B.

MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.68, pp.573-578, 2016
(Journal Indexed in SCI)

- VII. **Porous and spherical hydroxyapatite microcomposites for immunoglobulin G adsorption**
Akkaya B.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.130, no.4, pp.2764-2771, 2013 (Journal Indexed in SCI)
- VIII. **Separation of lysozyme with magnetically stabilized spherical hydroxyapatite microcomposites in a continuous flow system**
Akkaya B.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.130, no.3, pp.1602-1610, 2013 (Journal Indexed in SCI)
- IX. **New low-cost composite adsorbent synthesis and characterization**
AKKAYA R., AKKAYA B.
DESALINATION AND WATER TREATMENT, vol.51, pp.3497-3504, 2013 (Journal Indexed in SCI)
- X. **Adsorption isotherms, kinetics, thermodynamics and desorption studies for uranium and thorium ions from aqueous solution by novel microporous composite P(HEMA-EP)**
AKKAYA R., AKKAYA B.
JOURNAL OF NUCLEAR MATERIALS, vol.434, pp.328-333, 2013 (Journal Indexed in SCI)
- XI. **Concanavalin a immobilized magnetic poly(glycidyl methacrylate) beads for antibody purification**
AKKAYA B., YAVUZ H., CANDAN F., DENİZLİ A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.125, no.3, pp.1867-1874, 2012 (Journal Indexed in SCI)
- XII. **Production and immobilization of a novel thermoalkalophilic extracellular amylase from bacilli isolate**
AKKAYA B., YENİDÜNYA A. F. , AKKAYA R.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.50, no.4, pp.991-995, 2012 (Journal Indexed in SCI)
- XIII. **IgG purification by bentonite-acrylamide-histidine microcomposite**
Akkaya B.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.92, pp.151-155, 2012 (Journal Indexed in SCI)
- XIV. **Bentonite-acrylamide-histidine-Cu(II) Microcomposite for Cytochrome c Adsorption**
AKKAYA B., AKKAYA R.
POLYMERS & POLYMER COMPOSITES, vol.20, no.9, pp.829-835, 2012 (Journal Indexed in SCI)
- XV. **Properties of an extracellular lipase from a traditional yoghurt yeast**
AKKAYA B., YENİDÜNYA A. F.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.37, no.1, pp.62-67, 2012 (Journal Indexed in SCI)
- XVI. **A Crosslinked Carboxylic Acid Containing Cation Exchange Monolithic Cryogel for Human Serum Albumin Separation**
AKKAYA B., AKKAYA R.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.49, no.9, pp.736-743, 2012 (Journal Indexed in SCI)
- XVII. **Cross-Linked Bentonite-Acrylamide-histidine-Based Metal-Chelate Affinity Microcomposites for Lysozyme Separation From Egg White**
AKKAYA B., AKKAYA R.
SEPARATION SCIENCE AND TECHNOLOGY, vol.48, no.2, pp.272-280, 2012 (Journal Indexed in SCI)
- XVIII. **Concanavalin a Immobilized Monosize and Magnetic Poly(glycidyl Methacrylate) Beads for Use in Yeast Invertase Adsorption**
AKKAYA B., UZUN L., Altintas E. B. , CANDAN F., DENİZLİ A.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.46, no.3, pp.232-239, 2009 (Journal Indexed in SCI)
- XIX. **N-methacryloyl-(L)-histidine methyl ester carrying porous magnetic beads for metal chelate adsorption of cytochrome c**

Akkaya B., Uzun L., Candan F., Denizli A.

MATERIALS SCIENCE & ENGINEERING C-BIOMIMETIC AND SUPRAMOLECULAR SYSTEMS, vol.27, no.1, pp.180-187, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Cytochrome c adsorption in a continuous flow system by using Cu(II)-chelated magnetic affinity particles**
AKKAYA R., AKKAYA B.
BANGLADESH JOURNAL OF MEDICAL SCIENCE, vol.20, no.1, pp.159-163, 2021 (Journal Indexed in ESCI)
- II. **Wi-Fi decreases melatonin protective effect and increases hippocampal neuronal damage in pentylenetetrazole induced model seizures in rats**
AKKAYA R., Gümüş E., AKKAYA B., KARABULUT S., Gülmez K., KARADEMİR M., TAŞTEMUR Y., Taşkıran A. Ş.
Pathophysiology, 2019 (Refereed Journals of Other Institutions)
- III. **New Composite, Poly(Hydroxyethylmethacrylate-Expanded Perlite), for Single step Separation of Egg White Lysozyme**
AKKAYA B., AKKAYA R.
Cumhuriyet Science Journal, vol.39, no.3, pp.694-702, 2018 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Purification of Yeast Metalloprotease by Affinity Chromatography**
AKKAYA B., YENİDÜNYA A. F. , AKKAYA R.
IV. Ulusal Afinite Teknikleri Kongresi konferansı, Konya, Turkey, 23 - 27 June 2014
- II. **Organic Solvent Tolerant B-Amylase From Lactobacillus Fermentum**
KOCABAY S., AKKAYA B., YENİDÜNYA A. F. , ÇETİNKAYA S.
4th International Türk-Pak Conference Chemical Sciences (ITPCCS 2017), 26 - 28 October 2017
- III. **Screening Of Potential Probiotic Properties Of Lactobacillus Fermentum Isolated From Newborn Baby Gaita**
KOCABAY S., ÇETİNKAYA S., AKKAYA B., YENİDÜNYA A. F.
8th International Advanced Technologies Symposium, 19 - 21 October 2017
- IV. **Bebek Gaitalarında Yer Alan Bakterilerin Genotipik Ve Fenotipik Karakterizasyonu**
AKKAYA B., KOCABAY S., YENİDÜNYA A. F.
3. Ulusal Klinik Mikrobiyoloji Kongresi, Belek / İstanbul, Turkey, 18 - 22 November 2015
- V. **Hidroksiapatit Partiküller Kullanılarak Laktalbümin in İnek Sütünden Saflaştırılması**
ÇETİNKAYA S., AKKAYA B.
UYGULAMALI BİYOKİMYADA GÜNCEL KONULAR- 2, Turkey, 20 - 23 August 2015
- VI. **Adsorption Of Heavy Metal Ions In Tattoos Ink By Modified Bentonite Clay**
AKKAYA B., AKKAYA R.
International 2nd European Congress on Tatto and Pigment Research, Brugge/Belgium, Belgium, 28 - 30 April 2015
- VII. **Characterization of Enzyme Produced Isolates From Fecal Samples**
AKKAYA B., ÇETİNKAYA S., YENİDÜNYA A. F.
3rd International Congress of Molecular Biology and Biotechnology, 2 - 06 June 2014
- VIII. **N İzopropil Akrilamid Akrilik asit Monolitik Kriyojel Kolonlar**
AKKAYA B., AKKAYA R.
Kromatografi Kongresi, Turkey, 4 - 07 July 2011
- IX. **Production and Immobilization of a Novel hyper thermoalkalophilic extracellular amylase**
AKKAYA B., YENİDÜNYA A. F.

International Conference on Enzyme Science and Technology, ICEST 2011, 13 - 17 June 2011

X. **Konkanavalin A İmmobilize Eş Boyutlu Mikrokürelere İnvertazın Adsorpsiyonu ve Kinetiğinin İncelenmesi**

AKKAYA B., UZUN L., CANDAN F., DENİZLİ A.

VIII Kromotografi Kongresi, Turkey, 9 - 11 June 2008

XI. **Kırmızı ve Kara Turp un Antioksidan Özellikleri**

CANDAN F., ŞAHİN S., AKKAYA B., DÖNMEZ E.

XVII. Ulusal Kimya Kongresi, İstanbul, Turkey, 18 - 21 September 2003

Citations

Total Citations (WOS):131

h-index (WOS):7